abcam

ab178691

Anti-AAMP antibody [EPR12369]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR12369
Purification technique	Affinity purification Protein A
Concentration	0.236 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Species	Mouse

Dilution info	1/1000 - 1/10000
Notes	-

Species	Rat
Dilution info	1/1000 - 1/10000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/200
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information Angio-associated migratory cell protein

Function	Plays a role in angiogenesis and cell migration. In smooth muscle cell migration, may act through the RhoA pathway.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	AAMP also known as angio-associated migratory cell protein is a small protein with a molecular mass of approximately 45 kDa. It is expressed in various tissues including endothelial cells and fibroblasts. The protein interacts with actin-binding

	proteins and plays a part in cytoskeletal dynamics. It supports cellular processes by influencing cell migration and vascular organization.
Biological function summary	The protein contributes to angiogenesis by promoting the migration and proliferation of endothelial cells necessary for new blood vessel formation. It is not part of a larger complex but still interacts with other proteins involved in the remodeling of the extracellular matrix. AAMP aids in cell adhesion which affects tissue repair and development.
Pathways	AAMP participates in the angiogenic signaling pathway. It interacts with other proteins such as integrins to mediate cellular responses to growth factors like VEGF (vascular endothelial growth factor). This coordination ensures proper vascular development and function. The protein integrates into pathways that control the actin cytoskeleton further contributing to motility and structure of cells.
Associated diseases and disorders	AAMP shows relevance to cancer and cardiovascular disease. Its role in angiogenesis connects it to tumor growth where increased blood supply can promote cancer progression. Additionally AAMP's interaction with VEGF links it to cardiovascular disorders where aberrant vascular growth is a concern. As such AAMP may serve as a potential target in therapeutic strategies addressing these conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

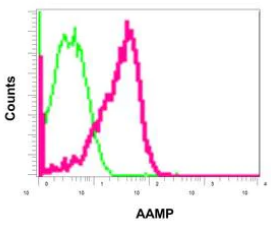
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

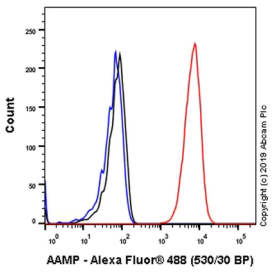
5 product images



Flow Cytometry (Intracellular) - Anti-AAMP antibody [EPR12369] (ab178691)

AAMP Flow Cytometry (Intracellular) staining using rabbit Anti-AAMP antibody

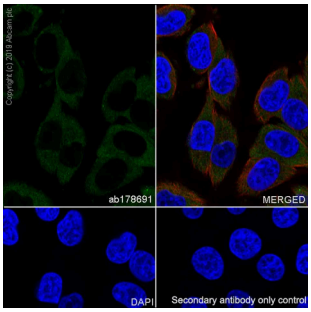
Intracellular flow cytometric analysis of permeabilized MCF7 cells labeling AAMP with unpurified ab178691 at 1/10 dilution (red) compared to arabbit IgG negative control (green).



Flow Cytometry (Intracellular) - Anti-AAMP antibody [EPR12369] (ab178691)

AAMP Flow Cytometry (Intracellular) staining using rabbit Anti-AAMP antibody

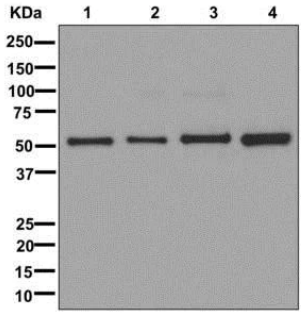
Intracellular Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling AAMP with purified ab178691 at 1/20 dilution (10µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-AAMP antibody [EPR12369] (ab178691)

AAMP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-AAMP antibody

Immunocytochemistry/ Immunofluorescence analysis of A375 (Human malignant melanoma epithelial cell) cells labeling AAMP with Purifiedab178691 at 1/200 dilution (1.2 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-AAMP antibody [EPR12369] (ab178691)

All lanes:
Western blot - Anti-AAMP antibody [EPR12369] (ab178691) at 1/1000 dilution

Lane 1:
Fetal liver lysate at 10 µg

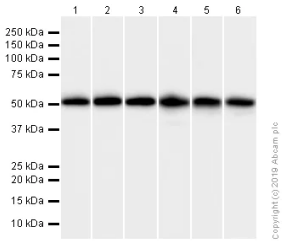
Lane 2:
HUVEC lysate at 10 µg

Lane 3:
A375 lysate at 10 µg

Lane 4:

MCF7 lysate at 10 µg

Predicted band size: 47 kDa



Western blot - Anti-AAMP antibody [EPR12369] (ab178691)

All lanes:
Western blot - Anti-AAMP antibody [EPR12369] (ab178691) at 1/1000 dilution

Lane 1:
A375 (Human malignant melanoma epithelial cell) whole cell lysates at 20 µg

Lane 2:
MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates at 20 µg

Lane 3:
Human brain lysates at 20 µg

Lane 4:
Mouse brain lysates at 20 µg

Lane 5:
Mouse heart lysates at 20 µg

Lane 6:
Rat brain lysates at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 47 kDa

Observed band size: 47 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.